All Agency Project Request

2013 - 2015 Biennium

Agency	Institution	Building No.	Building Name
University of Wisconsin	Extension	285-0T-0245	UPHAM WOODS CENTRAL

Project No. 16C2Q **Project Title** Upham Woods Domestic Water Sys Repl

Project Intent

This project provides investigation and research, pre-design, and design services to improve the domestic water system supply and distribution and construct accessibility improvements at the outdoor learning center. The project will review results of the previous feasibility study (10A3L), confirm scope, develop design solutions, and recommend final solution with detailed cost estimates and final design with project schedule analysis.

Project Description

Project work includes constructing a new water supply well with associated equipment to provide additional capacity and redundancy and replacement of portions of the main water distribution system for buildings. This project also constructs ADA accessibility improvements to the roadways and pedestrian pathways from the main camp to the cabin hill area. A high capacity well permit from the Wisconsin Department of Natural Resources will be required.

In 2011, a feasibility study was completed to evaluate the domestic water and sanitary sewer systems infrastructure. The study provided options for a new water supply well and improvements to the existing water main distribution system. In addition, some options were provided to upgrade existing equipment and replace parts. The feasibility study concluded that a new water supply well should be constructed and provide both additional capacity as well as redundancy. The existing well, with some upgrades, will remain as a backup and secondary source of water. The controls and any other equipment needed will be upgraded as necessary and connected to the new well so that the old well will automatically start if needed. This project will verify the compatibility of the existing well and equipment with the proposed new system. The project will construct a new well house to locate the variable frequency drive (VFD) controls, and new pressure tank, and extend electrical service to the new well/well house.

Project Justification

The Upham Woods Outdoor Learning Center is located on County Highway N in the Wisconsin Dells. Upham Woods provides educational opportunities to youth, youth leaders, and adults through year-round programs focused on environmental and leadership education, and energy literacy. It is the summer camp facility for the entire State of Wisconsin 4-H program. Approximately 9,000 individuals a year from all around the state participate in programming at Upham Woods. In addition to the educational infrastructure, services provided include overnight facilities for youth, adults and staff, and full meal preparation for center clientele, staff and support personnel. The Center consists of 318 acres of forested land, including Blackhawk Island, a 200-acre designated state natural area, and buildings to support the educational mission. The Center is operated by the UW-Extension Cooperative Extension Division in partnership with 4-H Youth Development. Much of the land was donated by the Upham Sisters to the University of Wisconsin in 1941 to be protected and preserved in a natural state "as an outdoor laboratory," and to be enjoyed by others sharing an interest in nature.

The Upham Woods facilities consist of a main administrative building, a lodge for meeting and dining, a dormitory, a nature center, a bathhouse, two boathouses, a craft center, a duplex residence, a maintenance/service shop, 6 cabins, and other natural and recreational areas. The facilities are served by a single aging water supply well and main distribution system. Waste water collection and onsite treatment systems were improved in 2013. With the exception of the nature center and the dorm which were built in the 1970's, most of the buildings were constructed from the mid 1940s to the 1960s.

This project allows Upham Woods to continue operations by repairing or replacing original infrastructure prone to failure. Any domestic water system disruptions are impossible to work around since there is only one supply of domestic water on site, impacting the educational program delivery, food service operations, and housing operations.

Lack of accessibility from the main camp to the primary lodging area on site (cabin hill) has also been identified as a

problem. This project will provide ADA accessible pathways from the Lodge, the Dorm, and the Administration buildings to the cabins for individuals of all abilities and ages.

A/E Consultant Requirements

☑ A/E Selection Required?

Consultants should have specific expertise and experience in the design and coordination of construction and renovation of domestic water supply systems and resolving ADA accessibility in rural areas. Work includes site surveys, acquiring field data, and verifying as-built conditions to assure accurate development of design and bidding documents, and production of necessary design and bidding documents. Consultants should indicate specific projects from past experience (including size, cost, and completion date) in their letter of interest and when known, include proposed consulting partners and specialty consultants.

The consultant will verify project scope, schedule, and budget estimates, and recommend modifications as required to complete the specified project intent. The consultant will prepare a pre-design document to establish an appropriate project scope, budget, and schedule prior to the university seeking authority to construct from the Board of Regents and State Building Commission.

Commissioning

☑ Level 1

☐ Level 2

Project Budget

Construction Cost:		$
Haz Mats:		$
Construction Total:		$
Contingency:	15%	$
A/E Design Fees:	19%	$
DFD Mgmt Fees:	4%	$
Other:		$
		$443,200

Funding Source(s)

	Total
GFSB - Utilities Repair & Renovation [Z080]	$0
PRSB - Utilities Repair & Renovation [T570]	$0
Agency/Institution Cash [AGF0]	$70,000
Gifts	$0
Grants	$0
Building Trust Funds [BTF]	$0
Other Funding Source	$0
	$70,000

Project Schedule

SBC Approval:	11/2016
A/E Selection:	05/2016
Bid Opening:	02/2017
Construction Start:	04/2017
Substantial Completion:	08/2017
Project Close Out:	12/2017

Project Contact

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Project Scope Consideration Checklist

	y	N
1. Will the building or area impacted by the project be occupied during construction? If yes, explain how the occupants will be accommodated during construction.	☑	☐
All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities.		
2. Is the project an extension of another authorized project? If so, provide the project #...	☑	☐
10A3L.		
3. Are hazardous materials involved? If yes, what materials are involved and how will they be handled?	☐	☑

Hazardous materials abatement is not anticipated on this project.

4. Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent? ☑ ☐

   All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities.

5. Will the project impact the heating plant, primary electrical system, or utility capacities supplying the building? If yes, to what extent? ☑ ☐

6. Are other projects or work occurring within this project's work area? If yes, provide the project # and/or description of the other work in the project scope. ☐ ☑

7. Have you identified the WEPA designation of the project...Type I, Type II, or Type III? ☑ ☐

   Type III.

8. Is the facility listed on a historic register (federal or state), or is the facility listed by the Wisconsin Historical Society as a building of potential historic significance? If yes, describe here. ☐ ☑

9. Are there any other issues affecting the cost or status of this project? ☐ ☑

10. Will the construction work be limited to a particular season or window of opportunity? If yes, explain the limitations and provide proposed solution. ☑ ☐

    Project work is seasonal. Preferred project work schedule should be limited to late spring, summer, and/or early fall months if possible.

11. Will the project improve, decrease, or increase the function and costs of facilities operational and maintenance budget and the work load? If yes, to what extent? ☑ ☐

    Operational costs are anticipated to increase due to the addition of new equipment and supply system.

12. Are there known code or health and safety concerns? If yes, identify and indicate if the correction or compliance measure was included in the budget estimate, or indicate plans for correcting the issue(s). ☑ ☐

    All disruptions to the doemstic water system present unsanitary conditions for continued operation since there is no redundant domestic water supply.

13. Are there potential energy or water usages reduction grants, rebates, or incentives for which the project may qualify (i.e. Focus on Energy <http://www.focusonenergy.com> or the local utility provider)? If yes, describe here. ☐ ☑

14. If this is an energy project, indicate and describe the simple payback on state funding sources in years and the expected energy reduction here. ☐ ☑